

PowerChokes®

Standard Choke SCB All-Purpose Severe Service

The Model SCB is a forged body, all-purpose severe service choke, available as an adjustable or a positive model.

Features

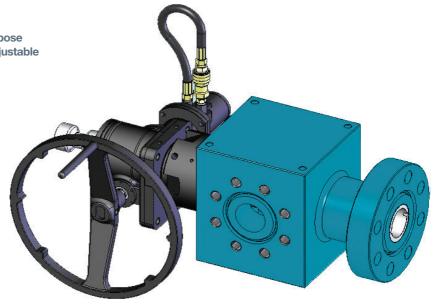
Adjustable Choke

- Worm gear drive actuator eliminates backlash and provides precise control; self-locking to prevent movement even if hydraulic pressure is lost
- Quick change actuator no need to disconnect hoses for removal. Trim can be changed in 15 minutes or less without removing the choke from the line or breaking into the manifold
- Accommodates 11/2", 2" or 3" trim size
- Manual override capability provided on all worm gear-operated hydraulic chokes in case of power loss
- Other types of actuator available in addition to the exclusive modified worm gear actuator, our chokes are available with hydraulic piston, electric or manual actuators
- Reversible gate and seat assembly

 provides a minimum of two uses
 per piece, saving parts, reducing
 operating costs and maximising
 efficiency. Can be reversed in the field
- Solid tungsten carbide gate and seat – proven design provides maximum erosion resistance. Gate and seat are precision-ground to provide drop tight shutoff

Standard Positive Choke (except Model SCC)

- Quick change bean bonnet easily removable. Service tools available to remove bean and bean carrier quickly for inspection or replacement
- Numerous bean sizes accepts 1" (64/64ths) maximum orifice H2-style or OCT-style bean, or a 3" solid tungsten carbide bean seat (192/64ths)



All Chokes

- Pressure balanced trim reduces operating forces, whether the choke is operated manually or automatically. Large balance ports provide protection against clogging
- Downstream wear sleeve and retainer ring – extended-length solid tungsten carbide seat provides wear protection downstream and a smooth transition for fluid into the downstream piping
- Large buffer cavity slows velocity and distributes impact of solids, maximising trim life

Actuator Manipulator Option

- Allows one-man, in-line servicing of chokes
- No lifting device required
- 15-minute service time

Control Consoles

- Offer operation for one, two or more chokes and / or hydraulic control valves
- Speed adjusts to allow fast or slow choke movement
- One or two hydraulic pumps plus manual backup hydraulic pump
- Bourdon tube hydraulic pressure gauges or digital pressures gauges available
- Digital position indicator gauge standard
- Accumulators available for power backup or to smooth choke operation

Both adjustable and positive Chokes supplied with:

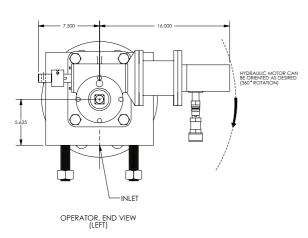
- Bleeder port to bleed pressure from choke body prior to choke bonnet removal for inspection or maintenance
- Studded inlet X flanged outlet standard. Flanged inlets available
- 31/16" inlet X 41/16" outlet standard for use in API 5M, 10M or 15M service
- Other inlet and outlet sizes available

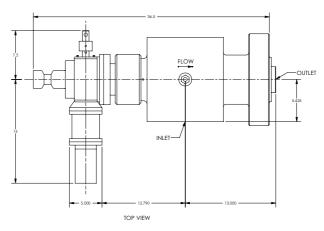


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Technical specifications





| Standard configuration Reversible, balanced, erosion-resistant trim | |
|---|--|
| Pressure ratings available | API 5,000; 10,000; 15,000 psi |
| Inlet size ranges | 1 ¹³ / ₁₆ " to 7 ¹ / ₁₆ " |
| Outlet size ranges | 4 ¹ / ₁₆ " to 7 ¹ / ₁₆ " |
| Trim sizes available | 1 ¹ / ₂ ", 2" or 3" |
| Testing | API 6A, API 16C |
| Body material | API 75K, impact tested IAW NACE MR01-75 |
| Throttling trim material | Tungsten carbide |
| Seat material | Tungsten carbide |
| Seat leakage | Drop tight |
| API temperature ranges Standard Optional | -20°F to +250°F (-29°C to +121°C) -75°F to +350°F (-60°C to +177°C) |
| API 6A PSL | 1 - 3, 3G |
| API 6A PR | 1 - 2 |

| General design specifications | |
|-----------------------------------|---------------------------------------|
| Maximum open for controllability | 85% |
| Minimum open for controllability | 2% |
| Maximum exit velocity | 1.0 Mach |
| Max. downstream velocity (Gas) | 0.3 Mach |
| Max. downstream velocity (Liquid) | 100 - 200 ft/sec |
| Hydraulic operating pressure | 1,800 psig |
| Seat leakage | Drop tight Exceeds ANSI class V) |
| Throttling pressure drop | Full-rated pressure |
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